

Appl. No. 09/811,678
Amdt. Dated February 24, 2005
Reply to Office action of December 1, 2004
Attorney Docket No. P12388/032559-093
EUS/J/P/05-6040

Amendments to the Claims:

This listing of Claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A process unit, comprising:
a real data generator for generating real data at a real data rate;
a buffer, arranged to store said real data generated by said real data generator;
a connection for transmitting data from said buffer;
a queue length monitor, monitoring the queue length in said buffer; and
a dummy load generator, arranged to store dummy data in said buffer at a dummy data rate being regulated based on said monitored queue length;
whereby said real data rate for said real data generator is regulated based on said monitored queue length.
2. (Currently Amended) The process unit according to claim 1, wherein a maximum value of said dummy data rate is determined based on at least one of:
the regulation response time of said real data generator, and
~~the generation rate of said real data~~ real data rate.
3. (Currently Amended) A process system, comprising:
at least one process unit having a real data generator generating real data at a real data rate, a first buffer arranged to store said real data generated by said real data generator, a queue length monitor monitoring the queue length in said first buffer, and a dummy load generator arranged to store dummy data in said first buffer at a dummy data rate being regulated based on said monitored queue length, whereby said real data rate for said real data generator is regulated based on said monitored queue length;
a transmitter connected to said first buffer;
a link over which data from said first buffer is transmitted by said transmitter; and

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a receiver receiving said data from said transmitter, said receiver being arranged to discard received dummy data.

4. (Currently Amended) The process system according to claim 3, wherein a maximum value of said dummy data rate is determined based on at least one of:

the regulation response time of said real data generator, and

~~the generation rate of said real data~~ real data rate.

5. (Currently Amended) The process system according to claim 4, further comprising a second buffer arranged between said real data generator and said first buffer to store only real data, for detection of said ~~generation rate~~ real data rate of said real data.

6. (Currently Amended) The process system according to claim 3, having at least a first and a second process unit wherein said first and second process units each having a first buffer and ~~wherein~~ said transmitter is connected to said ~~first buffer~~ first buffers of both said first and said second process unit, whereby said link transmits data from both of said process units.

7. (Original) The process system according to claim 6, wherein the dummy data rate of said first process unit is different from the dummy data rate of said second process unit.

8. (Previously Presented) The process system according to claim 6, further comprising communication means between said first process unit and said second process unit for exchange of regulation information.

9. (Original) The process system according to claim 8, wherein at least one of the dummy load generators comprises means for regulating the maximum value of said dummy data rate based on said regulation information.

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10. (Currently Amended) A method of transmission, comprising the steps of:
generating real data at a real data rate,
storing said real data in a first buffer,
generating dummy data,
storing said dummy data in said first buffer at a dummy data rate,
transmitting data from said first buffer,
monitoring the queue length in said first buffer,
regulating the speed of the ~~real data generation~~ real data rate based on said
monitored queue length, and
regulating said dummy data rate based on said monitored queue length.
11. (Currently Amended) The method of transmission according to claim 10,
further comprising the step of determining a maximum value of said dummy data rate
based on at least one of:
the regulation response time of said real data, and
the ~~generation rate of said real data~~ real data rate.
12. (Previously Presented) The method of transmission according to claim 10,
wherein said step of regulating of said dummy data rate comprises the step of reducing
the dummy data rate.
13. (Original) The method of transmission according to claim 12, wherein said
step of regulating of said dummy data rate comprises the step of stopping said dummy
data storing.
14. (Currently Amended) The method of transmission according to claim 10, in
a system of at least two process units sharing a common link, further comprising the
step of communicating regulation information between dummy load generators,
whereby at least a part of said regulation information being selected from the list of:

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information about dummy data rates,
information about ~~generation rates of real data~~ real data rate,
information about any degree of regulation of the real data generation,
information about queue lengths, and
information about queue length growth rates.

15. (Original) The method of transmission according to claim 14, further comprising the step of regulating said maximum dummy data rate of at least one of said dummy load generators based on said regulation information.

16. (Original) The method of transmission according to claim 15, wherein said step of regulating said maximum dummy data rate is performed if uneven restrictions of the current dummy data rates are detected.

17. (Currently Amended) The method of transmission according to claim 10, further comprising the step of measuring the real data rate ~~generation rate of real data~~ by storing said real data in a second buffer, prior to the storage in said first buffer.

18. (Previously Presented) A process unit according to claim 1, wherein the process unit is included in a data communication or telecommunication system.

19. (Previously Presented) A process system according to claim 3, wherein the process unit is included in a data communication or telecommunication system.

20. (Previously Presented) A method according to claim 10, wherein the method is preformed in a data communication or telecommunication system.

21 (Currently Amended) The process system according to claim 8, wherein the regulation information includes at least one of:

information about dummy data rates;

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information about ~~generation rates of real data~~ real data rate;

information about any degree of regulation of the real data rate ~~real data~~
~~generation~~;

information about queue lengths; and

information about queue length growth rates.